# ADAM

## (Agentic Data & Application Mgmt.)

GTM DECK

# AGENDA

1. Market Dynamics
2. What is ADAM?
3. ADAM: Solution Approach & Architecture
4. Key Solutions
5. The Case for ADAM in the AI Era
6. Success Stories

# Market Dynamics

# Market outlook : AI is poised for Explosive Growth

**Up to $4.4 Trillion**

**incremental economic value over traditional AI**

Source: McKinsey report: The Economic Potential of Generative AI: The Next Productivity Frontier

Globally, attention is shifting to the next major AI wave: Unit of AI is "agent"

## Current Trends

- Automation everywhere
- Developer Productivity Boost
- AI Nexus
- Data Driven intelligence : AI in BI
- AI stress is real

## Next frontier

- Rise of Autonomous AI Agents
- Multimodal AI as Core Intelligence
- Platformization & Unified Data Strategy
- AGI – Technology Optimism Meets Uncertainty

# The rise of Agentic AI and Platform wars : A New Competitive Landscape

### 4.4 Trillion+ Value opportunity

*AI could drive $4.4T in annual impact—led by software engineering ($1.2T), sales & marketing ($1.2T), R&D ($0.4T), and customer ops*

### From features to autonomous agents

*AI is evolving into autonomous, enterprise-aware agents that handle multi-step tasks like lead conversion, code generation, and service resolution*

### Enterprise shift : Orchestrate, not just build

*Focus is moving from building standalone models to orchestrating agentic workflows—grounded in unified data and contextual enterprise logic*

### Platform wars + product disruptors reshape the stack

*Hyperscalers are embedding AI at the core. Services firms are launching orchestration platforms atop them. Meanwhile, disruptors like Cursor.ai are redefining developer productivity, and niche products are embedding AI to win on domain precision and workflow depth*

### From black-box to guardrails : the New AI mindset

*Winning enterprises are embracing platform thinking, ethical AI design, and a culture of experimentation—scaling only what's measurable, explainable, and aligned to business value.*

### From platform differentiation to Interoperability and control

*Enterprises are building AI systems that have interoperability, enterprise-grade safety, and agentic orchestration frameworks.*

# The Triple Dilemma Facing the Enterprise Leaders in the Age of AI

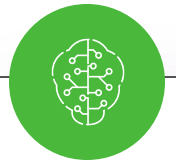
While enterprises recognize the value of AI, operationalizing it is slowed by strategic ambiguity, platform complexity, and talent constraints that hinder accelerated adoption

## Strategy Dilemma

*Where to Play and How to Win with AI*

## Platform Dilemma

*Build vs. Buy vs. Abstract*



## Talent Dilemma

*Skills Scarcity Meets Culture Shock*

# Shaped by Trends, Designed for the Future: ADAM

In alignment with existing market trends and future outlook, we built the ADAM platform to address the needs, potential gaps and future proof our offerings

## From Growth to Value

Translating the $4.4T+ AI opportunity into measurable enterprise outcomes

## Solving the Triple Dilemma

A unified platform to address strategy clarity, platform orchestration, and talent gaps

## Agents as the Next Frontier

Designed for domain aware + horizontal autonomous agents that drive maximum business impact

## Platform Neutral, Enterprise First

Works across diverse platforms, models & ecosystems, reducing fragmentation.

## Scalable & Responsible

Embeds ethical AI, explainability, and measurable impact at scale using Control tower

# What is ADAM?

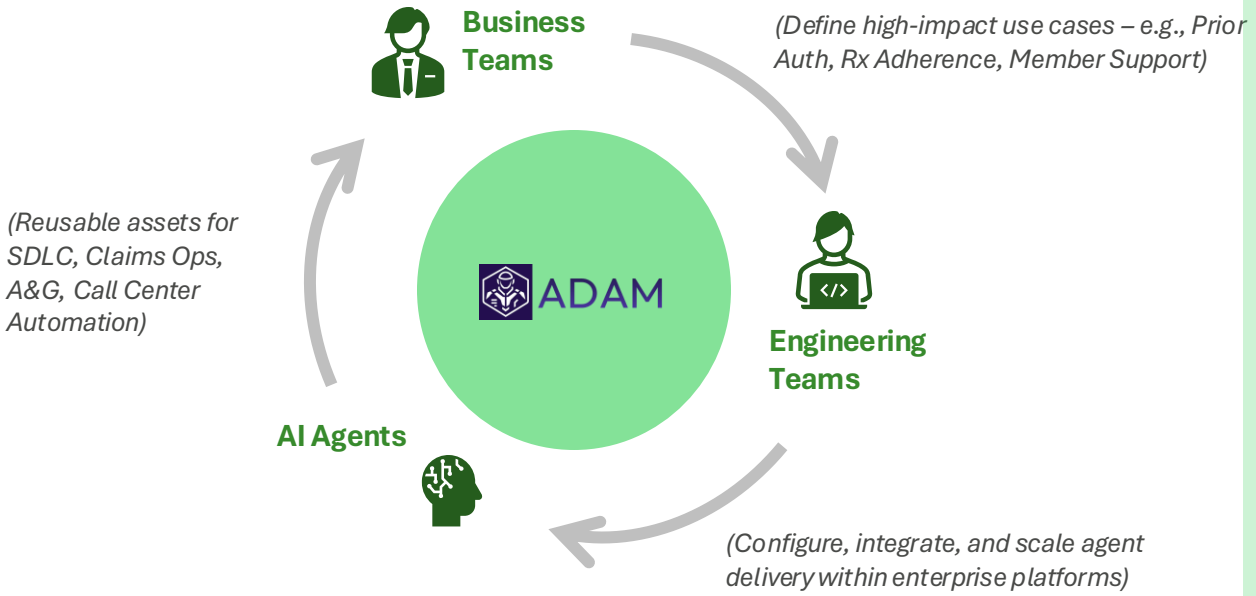
# Meet ADAM (Agentic Data and Application Management)

*Our solution suite powering every service offering*

**Helps customers build their Agentic Enterprise**

**FASTER & SMARTER, ON THEIR OWN TERMS**

ADAM is an ecosystem of accelerators with pre-built configurable agents, solution templates, and a cloud-agnostic reference architecture for scalable, business-ready AI deployment.




Agent Marketplace
(Prebuilt agents' repository)

| | |
|---|---|
| ***ALM Insights*** | ***Agentic Discovery*** |
| ***FinOps*** | ***CloudOps*** |
| ***One Touch Orchestration*** | |
| ***Database Migration*** | |

Contextual Layer
(Domain specific agents that are purposeful and composable to customer needs)

***PreAuth & Claims Processing*** | ***Omnichannel Patient Engagement*** | ***Contact Center Automation***

Orchestrator Layer
(Run with Configurations and re-wiring)

Foundational Layer for Build and RUN
(Prebuilt solutions that address Engineering, Data and AI problems)

***Data Quality*** | ***Data Engineering*** | ***Data Ops*** | ***Data Insights***

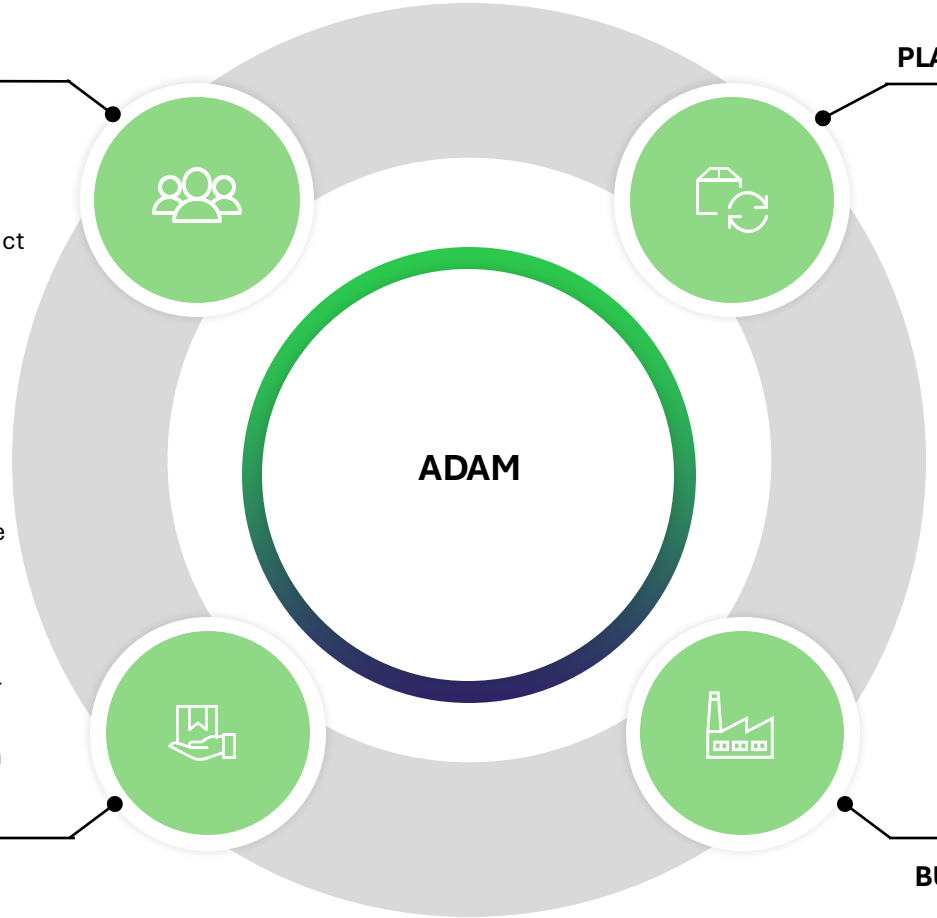
***Agentic SDLC*** | ***AMS*** | ***Legacy Code Conversion*** | ***Agentic SRE*** | ***Agentic Testing***

Integration Layer
(Tooling Agnostic, Pluggable and Configuration driven)

***50+ Integrations : Github, SNOW, Splunk etc.,***

# ADAM: Composable. Extensible. Ready to Power Your Ecosystem.

ADAM is a composable and extensible platform that offers domain-specific agentic solutions across engineering - digital, data, and infra & network. It combines a powerful strategy toolkit with platform capabilities to accelerate the design, deployment, and scaling of cross-platform agentic solutions. Tech- and tool-agnostic, ADAM enables rapid innovation for complex business challenges.




**ADAM STRATEGY TOOLKIT**

- Structured, value-driven journey to adopt agentic AI
- Clarity on AI maturity and current state
- Quick wins unlocked for early business impact
- Scalable roadmap co-created, aligned to business priorities

**PLATFORM**

- End-to-end enterprise platform for AI agent adoption
- Build, orchestrate, and govern interconnected AI agents
- Simplifies adoption while accelerating innovation
- Built-in safety, scalability, and control for enterprises

**FOUNDATIONAL SOLUTIONS**

- Reusable building blocks designed to accelerate tailored solutions
- Covers data, digital, infrastructure, and network domains
- Modular components configured for faster time-to-value
- Ensures consistency, scalability, and innovation for clients

**BUSINESS SOLUTIONS**

- Pre-built agentic solutions with deep domain expertise
- Addresses industry-specific challenges, e.g., enhancing payer experience
- Extensible via Agent Canvas for rapid customization
- Seamless integration to meet evolving business needs

# ADAM: Solution Approach and Architecture

# Our AI strategy : Driven by Strategy Toolkit

Our proven AI strategy to understand client maturity and define AI roadmap, aided by ADAM, customized to their pain points driving maximum value

## Assess Maturity

- Evaluate current AI maturity across data, platforms, skills, and governance.
- Benchmark platform readiness to identify gaps.

## Define Value Realization

- Map business functions and industry use cases to AI opportunities.
- Prioritize based on impact, feasibility, and ROI potential.

## Operating Model

- Decide where to build custom solutions, buy accelerators, or abstract with orchestration layers.
- Balance speed, cost, and flexibility.

## Governance & Guardrails

- Embed Responsible AI principles, compliance, and auditability.
- Define monitoring, oversight, and control structures.

## Strategy to Execution

- Translate the roadmap into phased initiatives.
- Align operating models, budgets, and KPIs with business outcomes.

## Strategy Toolkit

### Value realization

*ROI quantification financial model (MoM value realization)*

### Build vs buy vs abstract

*Decision making matrix and scoring tool*

### AI Operating model

*Use case prioritization framework and operating model maturity assessment*

### Platform Readiness

*Maturity scoring and recommendations to improve score*

### Agent design canvas

*Guidebook to defining agent purpose, data, logic, design, output, interaction*

### Use case prioritization

*Prioritize the right use cases to drive maximum impact*

### Decision ledger portal

*Key business outcome buckets with human intervention/decision points*

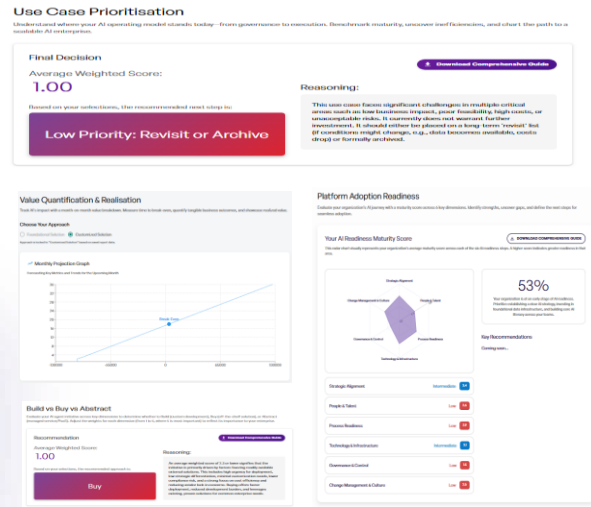
### Agent safety

*Framework and checklist to ensure agent decision rationale, autonomy, execution etc. safety*

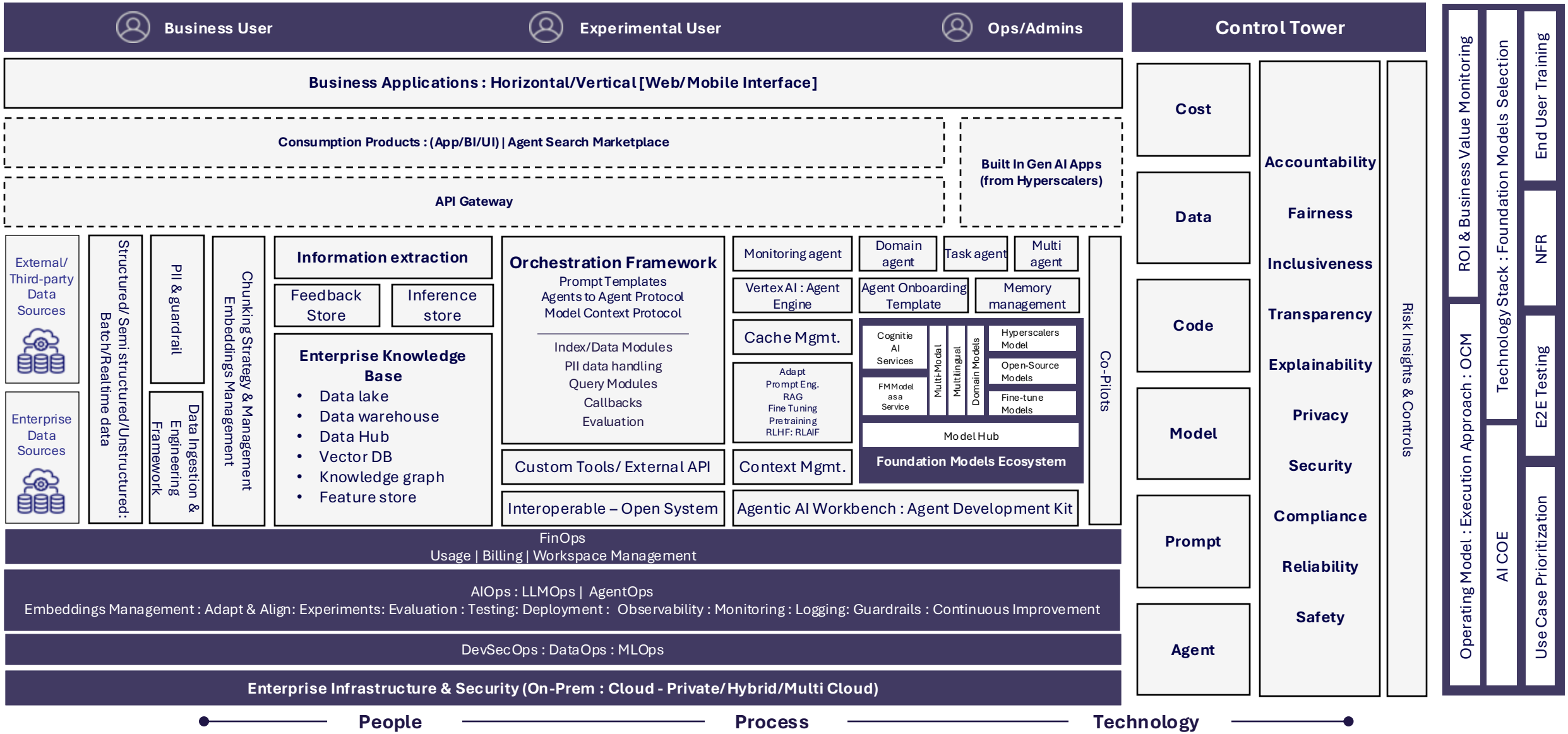
### Orchestration and interoperability

*Agent Interoperability & Orchestration Blueprint and Plug-and-Play API Templates*

## Sample Outputs



# ADAM Functional Architecture



# Platform Features: How ADAM Delivers Value

***The ADAM Platform is an end-to-end enterprise backbone for building, orchestrating, and governing interconnected AI agents. It simplifies adoption while accelerating innovation, ensuring safety, scalability, and control at every stage.***

## Infra agnostic

*Works across AWS, Azure, GCP; on-prem support upcoming*

## Agent Marketplace

*Discover and reuse agents through a unified, searchable hub*

## Compose and configure

*Replace code with configuration using modular, agentic elements*

## AI Control tower

*Govern, monitor, and optimize all agents using a central view*

## Orchestration Layer

*Embeds agentic intelligence in workflows, orchestrates agents/events*

## Integration Layer

*Connects seamlessly with enterprise tools*

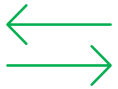
# Integration without Disruption

## Standardized Protocol for Tool Access

- Enforce a **common interaction layer like MCP**.
- Agents should connect to source control, CI/CD, testing, observability, collaboration tools, etc., without custom one-off connectors.
- Ensures **interoperability, reusability, and portability across enterprise** ecosystems.

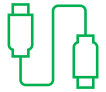
## Context Management & Federation

- Ability to **fetch, aggregate, and ground agent** actions in relevant enterprise context
- Prevents **"hallucinations" and ensures modernization/migration** guidance is based on enterprise reality.



## Bidirectional Collaboration

- Agents integrate with collaboration tools (Slack, Teams, Confluence).
- Supports bi-directional updates Agents can update Jira/ADO tickets.
- Promotes human-in-the-loop modernization vs. fully autonomous black box.



## Extensibility & Custom Connectors

- **Open APIs/SDKs for enterprises to** plug in Legacy platforms.
- Prevents platform lock-in, critical for modernization/migration scenarios.

## Knowledge Graph & Traceability

- **Integration with enterprise KM** (Confluence, SharePoint, Wikis).
- Build a knowledge graph of architecture, dependencies, and modernization status.

# Strategic Framework for Intelligent Security

***These elements provide a layered security approach addressing the unique autonomy, memory persistence, planning, and tool integration capabilities of agentic AI systems, ensuring safe and compliant enterprise deployment***

## Agent Authentication and Authorization

- *Strong cryptographic identities for verification*
- *Role-based or attribute-based access controls*
- *Ensures agents operate only within approved boundaries*
- *Prevents impersonation or unauthorized access*

## Runtime Monitoring and Anomaly Detection

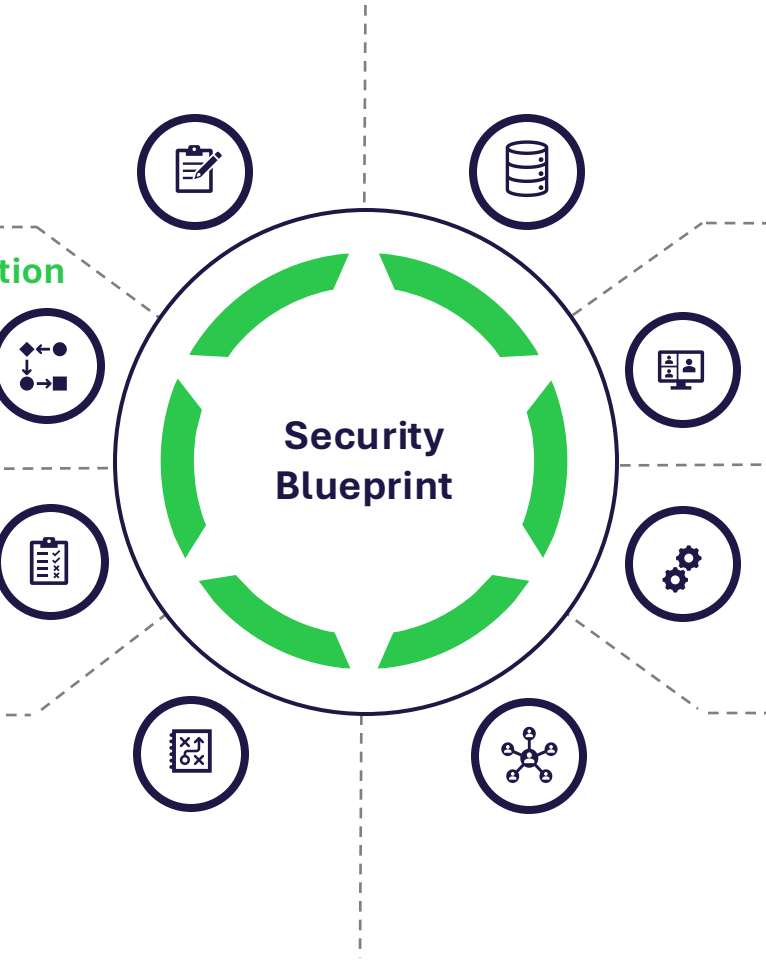
- *Real-time behavior monitoring*
- *Unusual tool usage detection*
- *Abnormal data access alerts*
- *Anomalous actions flagged*

## Tool Access Controls and Sandboxing

- *Least-privilege permissions for APIs, plugins, and tools*
- *Sandboxed execution environments*
- *Isolated runtimes to prevent abuse or lateral movement*

## Memory Integrity Protection

- *Data validation and cryptographic checks*
- *Session isolation controls*
- *Regular memory sanitization*
- *Rollback features for recovery*




## Agent Behavior Constraints and Guardrails

- *Strict boundaries for agent autonomy*
- *Policy enforcement mechanisms*
- *Resource usage caps*
- *Human approval for sensitive operations*

## Audit Logging and Forensics

- *Tamper-resistant, signed logs*
- *Records all agent decisions and actions*

## Secure Agent-to-Agent Communication

- *Encrypted agent-to-agent messages*
- *Strong authentication of senders*
- *Validation of message integrity*

## Emergency Stop and Override Mechanisms

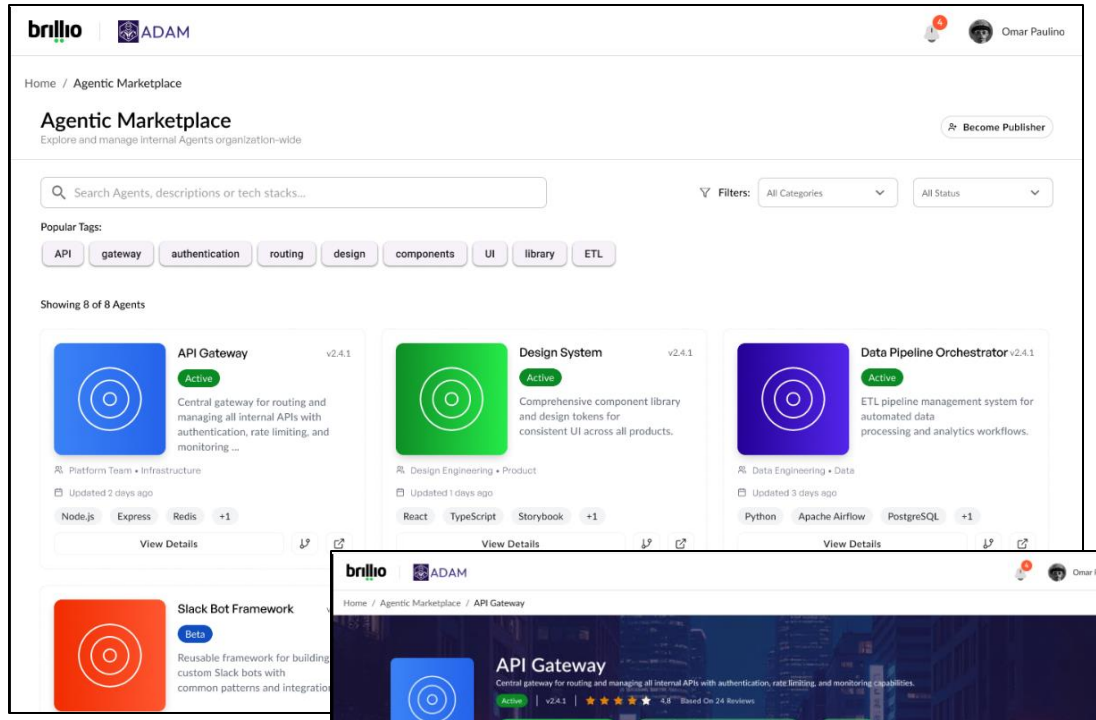
- *Reliable kill switches and overrides*
- *Immediate pause or shutdown of agents*
- *Protection against unexpected or compromised behavior*
- *Regular testing of controls*

# Agent Marketplace

*Discover. Deploy. Scale.*

ADAM's Agent Marketplace offers a library of reusable, pre-built agents and templates that can be adapted to your enterprise. It shortens time-to-value, encourages best-practice reuse, and ensures your teams can scale AI adoption quickly.

- A curated library of pre-built AI agents.
- Share and reuse agents across teams.
- Speed up adoption with proven, reusable assets.




## Why it matters?

No need to start from scratch — scale faster with a growing marketplace of agents.

# Govern by Design: The AI Control Tower for Proactive, Multi-Agent Trust

## Mandate a "Shared Language" (Agent Fabric & Metadata Cards)

**Disparate agents (from different vendors, built on various frameworks) create data silos and communication chaos**

- Practical, self-describing components
- Standardized **"Agent Fabric“** and **"Agent Metadata Cards"** for each agent
- Trust score : data requirements, compliance tags

## Centralized Oversight with Decentralized Execution

**Dilemma between autonomy and control : Full autonomy leading to Governance blind spots, full centralized control stifling agility**

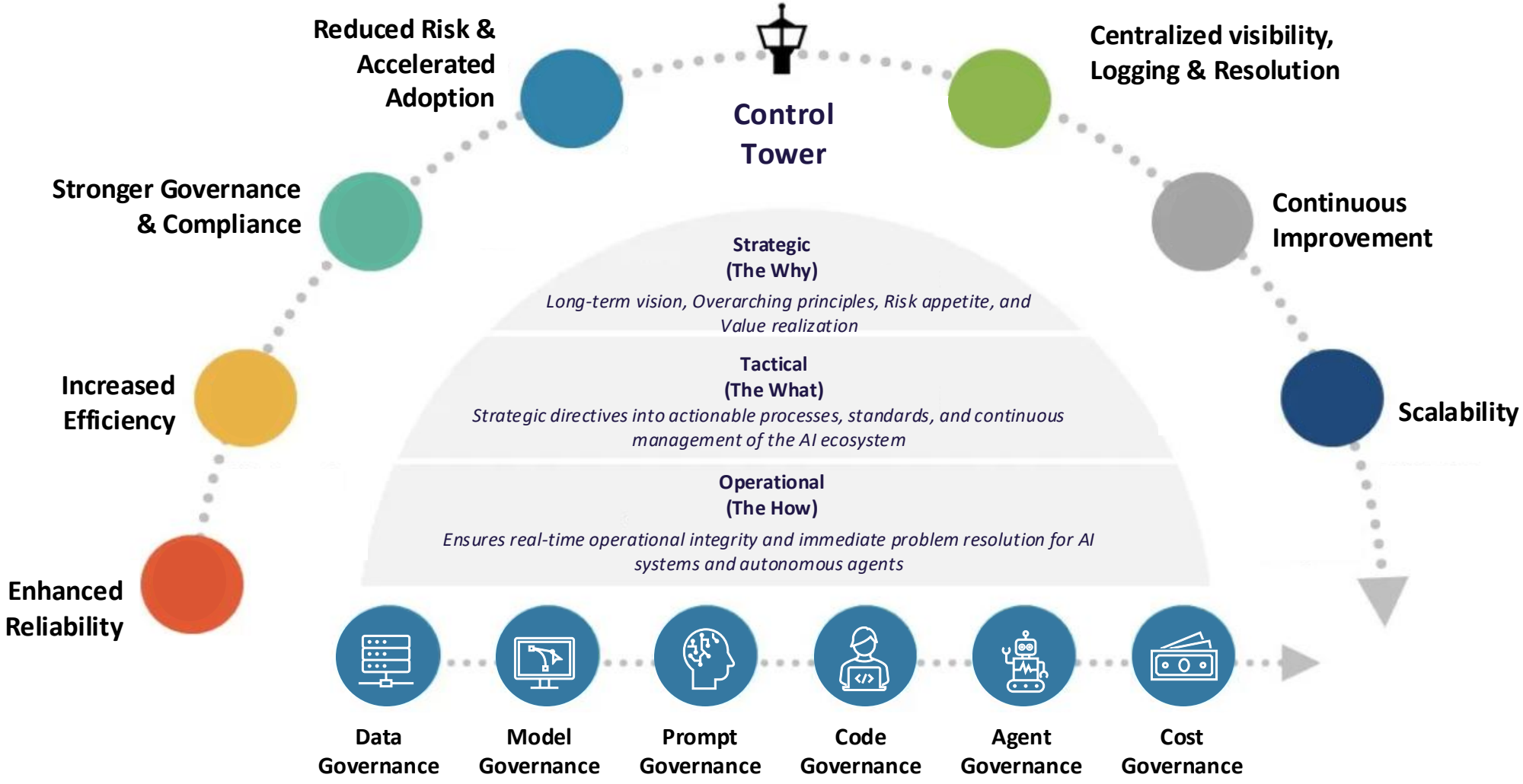
- **Brillio’s control tower** (controlled independence) : dimensions Data, code, model, prompt and agent
- Individual **agent guardrails, roles, and communication protocols** defined

## Proactive Risk-Based Governance

**Reactive governance in dynamic multi-agent environments is too slow, traditional audit trails insufficient for emergent behaviors**

- Reactive to proactive : **Integrated anomaly detection**, performance monitoring and audit trails
- **Pre-mortem risk assessments** for new agent
- Agent interactions, and decision rationales (**Explainable AI**)

# AI Control Tower is a composite of multiple governance paradigms



# The Control dimensions

## Data

Ensuring the quality, integrity, security, privacy, and responsible use of data throughout its lifecycle for AI

- **Monitors**: Data access patterns by agents, data quality issues reported by AI systems.
- **Enforces**: Data privacy policies (e.g., PII masking, access controls) before AI ingestion/processing.
- **Validates**: Input data quality and consistency for AI models and agents.
- **Detects**: Anomalous data access or manipulation by AI entities.

## Model

Managing the development, deployment, performance, and ethical behavior of AI/ML models.

- **Monitors**: Model performance (drift, accuracy, latency), bias, and fairness metrics in real-time.
- **Tracks**: Model versions, lineage, and retraining cycles.
- **Enforces**: Model validation standards, ethical guidelines, and explainability requirements.
- **Triggers**: Alerts or automated actions for performance degradation or ethical violations.

## Prompt

Ensuring the safe, secure, and effective construction and usage of prompts for large language models (LLMs) and generative AI

- **Filters**: Inbound and outbound prompts for injections, sensitive information, or harmful content.
- **Monitors**: Prompt effectiveness, consistency in agent persona/style.
- **Enforces**: Prompt engineering best practices and content generation policies.
- **Logs**: Prompt usage for auditing and analysis.

## Code

Managing the quality, security, maintainability, and reusability of the underlying code that builds & operates AI

- **Enforces Quality**: Integrates with CI/CD for code quality, security, and reusability.
- **Monitors Deployments**: Tracks code deployment frequency and error rates post-launch.
- **Ensures Best Practices**: Governs modularity, version control, and MLOps scripts.
- **Validates Changes**: Facilitates automated testing in simulation environments

## Cost

Optimizing and controlling the financial costs across AI development, training, deployment, and ongoing operation

- **Tracks Consumption**: Monitors granular resource usage (compute, storage, APIs) by agents.
- **Manages Budgets**: Tracks costs against predefined budgets and forecasts.
- **Detects Anomalies**: Identifies unusual or inefficient resource utilization.
- **Optimizes & Alerts**: Provides budget alerts and recommends cost-saving adjustments.

## Agent

Overseeing the behavior, autonomy, collaboration, and objectives of individual AI agents and multi-agent systems

- **Monitors Behavior**: Tracks agent actions, decisions, and goal progression in real-time.
- **Enforces Policies**: Ensures adherence to ops rules, tool use, and collaboration protocols.
- **Detects Deviations**: Identifies unexpected actions, unauthorized behavior, or inter-agent conflicts. Initiates Interventions:
- **Triggers** human-in-the-loop actions or automated corrections

# ADAM: Foundational Solutions

***Foundational Solutions are pre-built, reusable and interoperable components designed to infuse AI and automation into enterprise workflows. They standardize data, digital, and CX foundations to enable rapid, reliable deployment of Agentic AI across the stack.***

## Data Engineering

- Core frameworks that ensure trusted, high-quality data flows with transparency, automation, and observability baked in.

Data Lineage | Data Quality | Data Insights ....and others

## Digital Engineering

- Building intelligent, scalable platforms using AI-first delivery models for modern app lifecycle and infrastructure.

Agentic SDLC | AI led AMS | Agentic SRE ....and others

## CX

- Accelerating customer-centric digital transformation with agentic automation across commerce, content, and service.

Agentic Commerce | Marketing ops | Customer Ops ....and others

## Infra & Network

- Ensures resilient, scalable, and AI-optimized infrastructure for seamless ops.

Infra observability | Incident triage | Network remediation ....and others

# ADAM: Business Solutions

***Business Solutions are pre-built, end-to-end agentic solutions that embed deep domain expertise to address critical, industry-specific challenges***

**Industry Accelerators**

Solutions built at the intersection of client challenges and outside-in research

**Domain Intelligence**

Embedded agents, workflows, and insights tailored to industries

**Extensible Design**

Rapidly customizable and adaptable to evolving client needs

*Below are the business and domain-specific solutions built on the ADAM platform, designed to accelerate AI adoption and deliver measurable outcomes across industries*

| HLS | CMT | BFSI | Consumer |
|---|---|---|---|
| • Payer Experience : Knowledge assist<br>• Eligibility switch navigator<br>• Redetermination agent<br>• Provider Data quality | • Churn AI<br>• Network Troubleshooting and RCA<br>• CMDB<br>• Agentic ITSM | • Wealth Management<br>• Fincrime Solution | • Connected Demand & Supply Planning<br>• Category Co-pilot |

# Key Solutions

# Digital Engineering: Modernization

From Legacy Code to Future-Ready Applications: AI-led modernization accelerates transformation, reduces risk, and ensures scalability..

1. **Legacy Application Analysis**
   AI agents scan source code and application layers to uncover dependencies, redundancies
2. **Architecture Generation**
   Prompts-driven AI generates modern architecture blueprints based on proven practices.
3. **Architecture Validation**
   Framework-based checks ensure modernization adheres to enterprise principles.
4. **Legacy Code Conversion**
   AI-driven code translators modernize applications across languages and versions.
5. **Automated Testing Enablement**
   Agents generate test scripts, data, and scenarios for new environments.

brillio ADAM


- Automated repository analysis for insights.
- Identifies modernization priorities quickly.

- Aligns with enterprise standards.
- Eliminates design inconsistencies.

- Prevents technical debt.
- Validates scalability and reliability.

- Reduces manual rework.
- Handles large-scale migration efficiently.

- Seamless script management.
- Enhances test coverage and reduces release cycle.

# Digital Engineering: Agentic SDLC

Infusing AI into every SDLC phase to improve product-market fit and accelerate time-to-market.

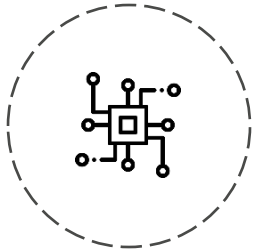
1. **AI-Augmented SDLC**
   Redefines lifecycle workflows by embedding generative AI across phases

2. **SDLC AI Assessment Reports**
   AI agents generate progress and performance reports to guide teams.

3. **Optimized Resource Allocation**
   AI dynamically adjusts workloads across teams and phases.

4. **Performance Optimization**
   Agents monitor quality, scalability, and performance metrics in real-time.

5. **Scalable Development Capacity**
   Automated workflows and reusable components enable scaling.



**Infuse Gen AI in all SDLC Phases**

- Reduces manual interventions.
- Accelerates development cycles.
- ROI - Significant reduction in the overall organization costs

**Engineering Design & Development**

- Tracks quality, timelines, and risks.
- Provides actionable insights.

- Improves productivity.
- Prevents bottlenecks.
- 60% Increase in Client's productivity due to lesser resource tracking

**Performance Optimization**

- Detects inefficiencies early.
- Suggests corrective actions.

- Speeds up product iterations.
- Ensures consistency across releases.
- 70% Lesser time for typical migration scenarios

# Digital Engineering: AI led AMS

From Reactive to Proactive AMS: AI-led operations reduce tickets, optimize performance, and improve reliability.

1. **Holistic Observability**
   End-to-end visibility across logs, metrics, traces, and events.

2. **Deterministic Ticket Automation**
   AI agents automate ticket creation and triage with high accuracy.

3. **Probabilistic Diagnosis & Resolution**
   Predictive models recommend probable fixes and approvals.

4. **AI-Orchestration Engine**
   Coordinates data collection, diagnosis, and remediation.

5. **Unified Command Center**
   Consolidates monitoring, diagnosis, and resolution dashboards.

**Observability** → **Self-Service** → **Autonomous Systems**

- Enables proactive issue management.
- ~20% reduction in Tickets
- Improves decision-making.

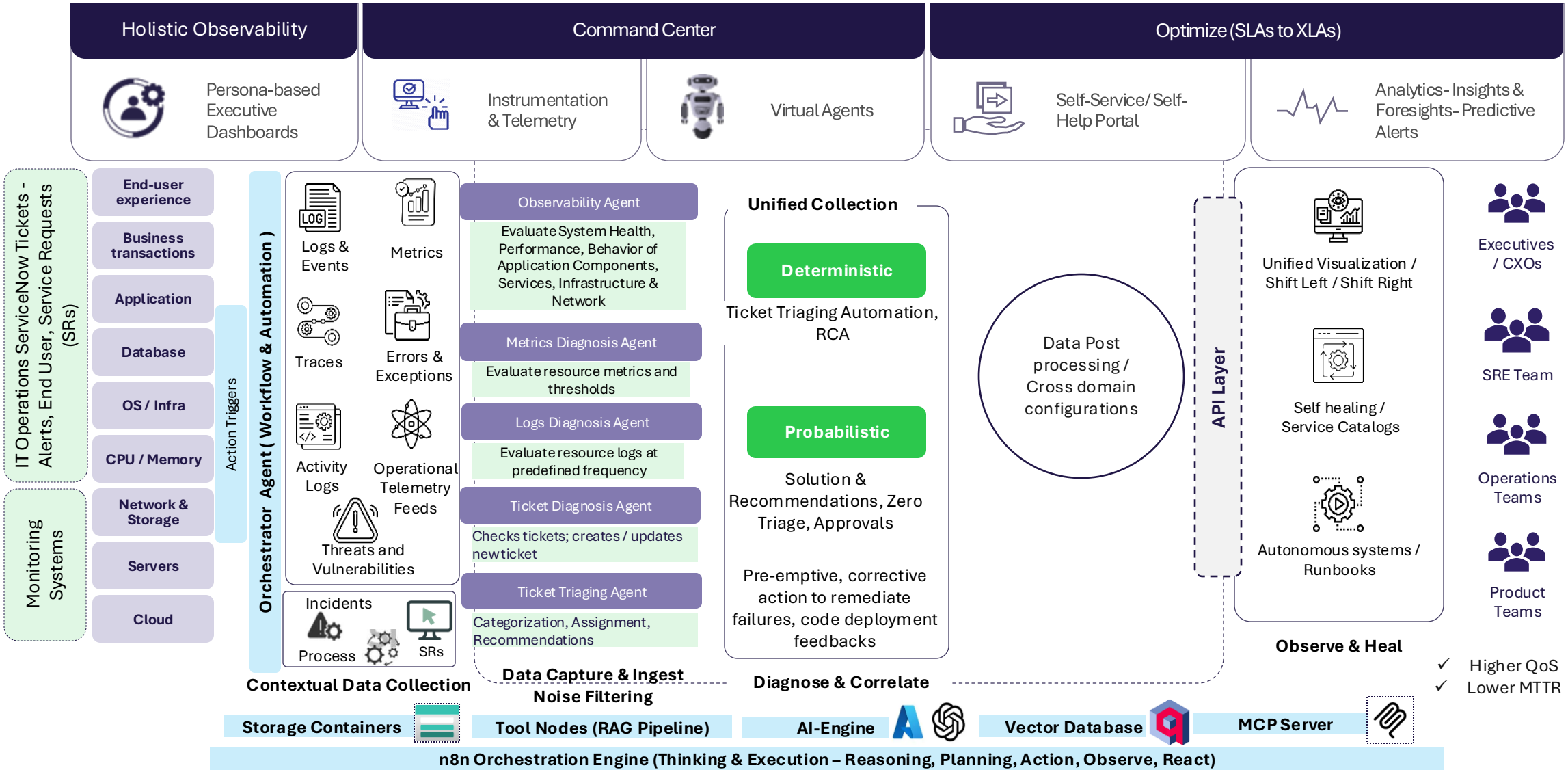
- Reduces downtime.
- Seamless RCA execution.
- 35% reduction in resolution time.

- Provides 24/7 assistance.
- Reduces workload on agents.
- 40% increase in productivity

- Reduces manual effort.
- Mindset shift from SLAs to XLAs.
- Improves MTTR.

- Enhances efficiency.
- Improves user experience.
- Higher QoS

# Digital Engineering: AI led AMS



# Digital Engineering: Agentic SRE

AI-powered reliability engineering to reduce noise, accelerate RCA, and enable self-healing.

1. **Event Correlation Engine**
   Aggregates signals from metrics, traces, and logs into actionable alerts.

2. **Classification & Categorization**
   AI organizes incidents into priority buckets for faster triage.

3. **Root Cause Analysis**
   AI agents analyze dependencies to pinpoint failure sources.

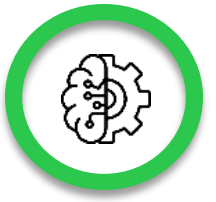
4. **Generative AI Support**
   Agents use clustering, recommendations, and semantic search for insights.

5. **Automated Runbooks**
   API-triggered workflows resolve incidents automatically.

Topic Modelling & Classification

Clustering

Recommendations



Semantics Search

- Eliminates false positives.
- Provides clear insights.

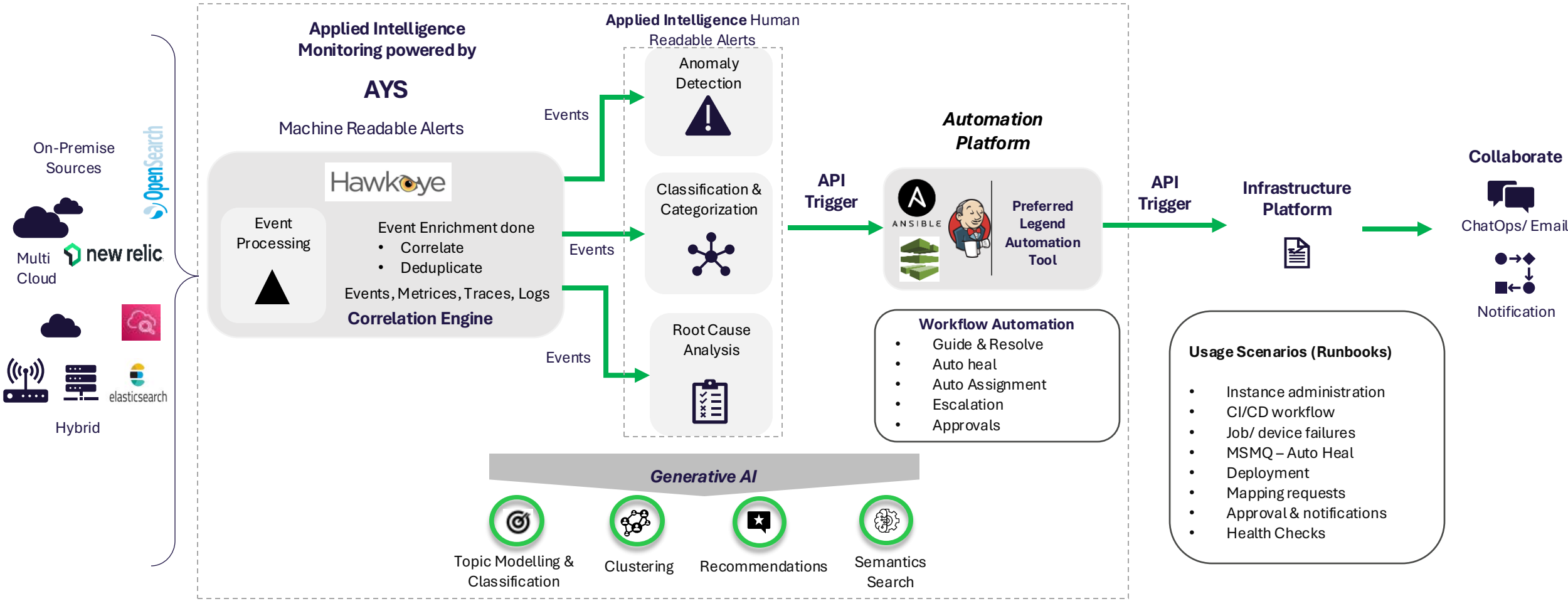
- Reduces noise.
- Improves focus on critical issues.

- Faster RCA.
- Actionable remediation steps.

- Guides engineers in real-time.
- Enhances collaboration.

- Handles CI/CD fixes and infra resets.
- Reduces manual effort.

# Digital Engineering: Agentic SRE

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|---|---|---|---|
| Tickets to be resolved using Agentic Ops Self-healing | Noise Reduction using event correlation | Real-time pattern recognition for swift response | Dynamic anomaly detection for preemptive troubleshooting |

# ADAM for Data Management: Data Observability

From Reactive Detection to Proactive Resolution: Ensuring reliability with AI-driven observability.

**Challenges Solved**

**1. Issue Occurrence**
Failures are identified post impact. No predictive alerts / anomaly detection

**2. Detection & Investigation**
Manual ticket creation and investigation processes, requiring significant human effort to detect and resolve issues

**3. Troubleshooting & Resolution**
Lack of predictable alerts or anomaly detection, leading to manual log analysis and slow mean time to resolution

**4. Recovery & Review**
Data issues can originate from various sources, such as incorrect user input, unexpected data formats, and more

**Agentic State**

**Agents**

**Observability agent**

Observability agent predicts issues by monitoring systems, detecting anomalies, and sending proactive alerts

**Log Analysis Agent**

Log Analytics agent reviews logs, events, and metrics and links symptoms and identifies root cause. It offers context with cause-effect relationships and affected systems

**Issue Classification Agent**

Issue Classification agent operates autonomously, performing preset self-healing tasks, escalating if needed, and monitoring the system afterward.

**Smart Recommendation Agent**

A smart recommendation system that proposes the best solutions for problem-solving by leveraging context, past interactions, and human in loop.

**Benefits**

**Faster Issue Diagnosis**

**Optimized Recommendations**

**Smart Assist**

# AI & Data Engineering : Data Engineering

AI-powered automation for data migration, transformation, and validation.

**Challenges Solved**

**1. Current State Assessment**
Lack of automated visibility leads to hidden silos and duplicate data assets.

**2. Data Model And Flow Mapping**
Manual reviews and the lack of predictive analytics lead to architectural inconsistencies.

**3. Code and Data Migration**
Manual refactoring causes errors and platform compatibility issues.

**4. Data Validation**
Slow, incomplete manual testing and validation. No automation for optimization, compliance, or risk checks.

**Agentic State**

**Agents**

**Current State Assessment**

- **Automatically scans databases, data lakes, and warehouses** to identify data assets and schemas.
- Creates detailed data inventories and **schema visualizations**.

**Data Model Recommendation**

**Data Flow Mapping and Generation**

- **Recommends data models based on the catalogs created** and traces data flow end-to-end.
- **Agent generates source to recommended data model**

**Code Migration**

**Data Migration**

- **Modernizes legacy SQL and ETL** to tools like DBT and PySpark, handling schema and logic changes.
- **ETL pipeline generation to load the data with referential integrity** and supports bulk/incremental transfers.

**Data validation**

- **Automates validations** including row-count, checksums, and business rules.
- **Ensures data integrity**, consistency, and compliance.

**Benefits**

**Accelerated Migration**

**Consistency & Accuracy**

**Future-Proofing**

**Enhanced Governance**

# AI & Data Engineering : Data Quality and Governance

Ensuring trusted data with AI-driven rules, validation, and governance.

**Challenges Solved**

1. **Manual Rule Creation**
   Applying rules to every data asset is expensive and demanding.

2. **Blanket Application of Checks**
   Governance teams frequently miss the business or technical insight needed to create effective data quality rules.

3. **Aggregation and Triaging**
   Identify datastores, REST endpoints, collections stored in databases, and characterize interactions as read or write.

4. **Detection and Validation**
   Current RCA methods focus on data quality incidents. No automated assessment of which DQ issues affect business KPIs

**Agents**

## Agentic State

**Intent Identification**

- Comprehends requests and **directs them to the appropriate workflow.**

**Critical Data Element Identification**

- **Generates comprehensive data inventories** and **produces schema visualizations.**

**Rule Recommendation**

- **Recommends optimal data models** and traces data flow end-to-end.

**Rule Generation**

- **Generates data lineage, transformation rules, and dependency diagrams**.

**DQ Rule Generation**

- **Recommends appropriate data quality rules** for the specified critical data elements (CDEs).

**Integration Agent**

- **Interfaces with data platforms** to execute and manage rules

**Root Cuse Analysis**

- **Identifies the underlying causes of data quality issues** and traces the source of errors.

**Big Query integration Agent**

- **Facilitates direct validation** with BigQuery datasets.

## Benefits

- **Improved Data Accuracy**
- **Regulatory Compliance**
- **Operational Efficiency**
- **Enhanced Trust in Data**

# AI & Data Engineering : Data Lineage

Complete visibility of data flows to improve accuracy, governance, and compliance.

**Challenges Solved**

**1. Multi-level Data Lineage Generation**
Generate lineage by analyzing code and application configurations across applications

**2. Data Flow Mapping**
Map overall data flow where applications interact with databases through GET and POST API calls.

**3. Asset and Interaction Identification**
RCA is slow, especially across complex data pipelines. Fragmented RCA Across Incidents.

**4. Comprehensive Lineage View**
Combine code and configuration data to build detailed, end-to-end lineage visualizations.

**Agentic State**

**Agents**

**Lineage Agent (LLM + Tools)**

**Utilize LLM to analyze variable transformations** and categorize operations such as CRUD, transformation, and validation.

**Framework Plugin Agent**

**Identify Spring Boot components such as Controllers, Services, and Repositories**, and incorporate metadata specific to the framework.

**Graph Builder Agent**

- **Store entities as nodes within a Neo4j or graph database**
- **Establish relationships** enriched with accurate metadata

**Query Agent**

**Interpret natural language questions** regarding lineage and convert them into graph database queries using Cypher.

**Benefits**

**Improved Data Accuracy**

**Operational Efficiency**

**Enhanced Trust in Data**

# Infrastructure Engineering : Network Observability

AI agents that monitor, optimize, and self-heal network performance in real time.

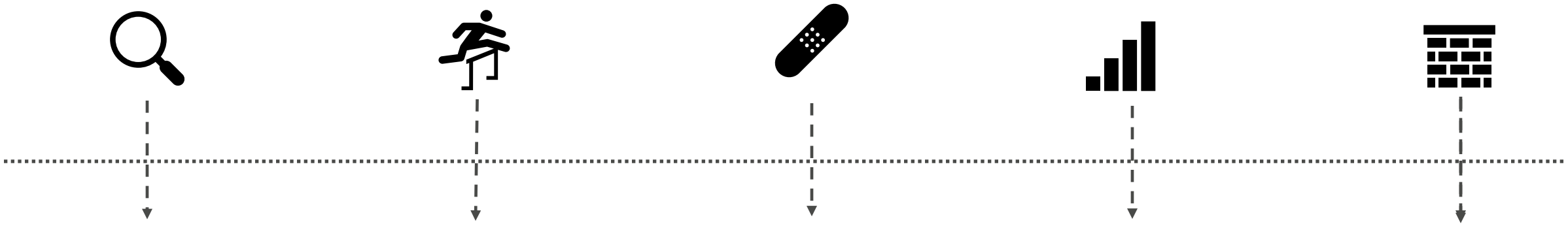
1. **Performance Monitoring Agents**
   Continuously monitor latency, congestion, and throughput.

**2. Traffic Optimization Agents**
Reroute traffic dynamically for improved performance.

**3. Root Cause Agents**
Correlate anomalies with infra changes.

**4. Self-Healing Agents**
Execute fixes automatically when thresholds are breached.

**5. Scenario Agents**
Simulate failures and optimize configurations.



- Detect anomalies instantly.
- Provide actionable insights.

- Prevents bottlenecks.
- Improves response times.

- Suggest fixes.
- Prevent recurrence.

- Reduces downtime.
- Maintains availability.

- Ensure resilience.
- Improve planning.

# Infrastructure Engineering : Incident Management

Autonomous AI for faster detection, triage, and RCA in infrastructure incidents.

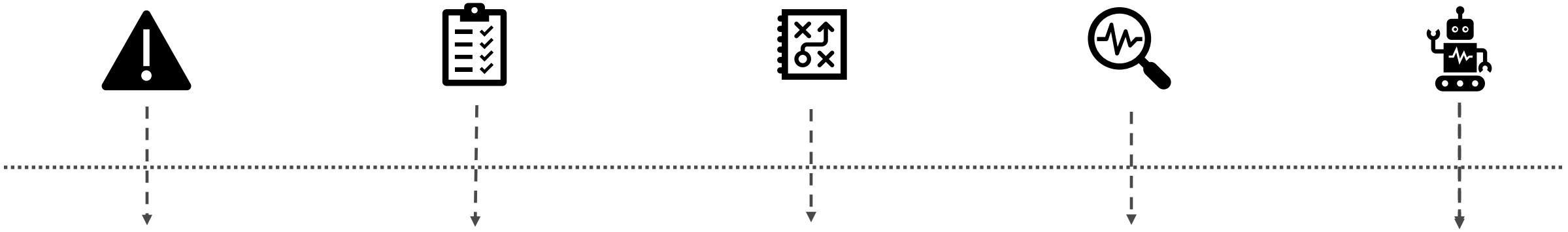
1. **Detection Agents**
   Monitor telemetry in real-time to detect anomalies.

2. **Autonomous Triage Agents**
   Classify and prioritize incidents automatically.

3. **Traffic Optimization Agents**
   AI dynamically reroutes traffic to optimize latency and performance.

4. **RCA Agents**
   AI correlates network anomalies with infrastructure changes and suggests fixes.

5. **Resolution Agents**
   Execute remediation workflows autonomously.



- Early warning signals.
- Reduced MTTD.

- Reduces manual effort.
- Improves accuracy.

- Maintains performance.
- Avoids congestion.

- Faster RCA.
- Suggest fixes.

- Minimizes downtime.
- Speeds recovery.

# CX and enterprise transformation : CMDB

From Static Repository to Living Digital Twin: *Trusted, real-time CMDB enables accurate service impact analysis and drives better business outcomes.*

**1. AI-Driven Discovery & Maintenance**
Automated CI maintenance agents validate and enrich discovered data continuously.

**2. AI Copilot & NLP Interfaces**
AI Copilot for teams enables natural language interaction with CMDB

**3. Self-Healing CMDB**
Self-healing AI agents auto-reconcile stale or conflicting CI records

**4. AI-powered Mapping & Risk Analysis**
Proactive agents detect missing/incorrect relationships and change risk agents simulate impact before approval.

**5. AI Insights & Audit Readiness**
Proactive anomaly and compliance monitoring.


- Agent based data source reconciliation
- Detect and merge duplicates or missing CIs.
- Normalizes CI attributes using historical patterns.

- NLP assists in updates and validation based on user prompt
- Agents recommend probable CI owners based on usage/activity.

- Anomaly detection and Trigger automated reconciliation workflows (approval or auto-fix).
- Flag deviations in CI-health score proactively.

- Agents Infer service dependencies based on network patterns & historical change data.
- Change impact simulations provide risk scores

- Agents continuously monitor CI data quality; auto-generate compliance-ready audit reports.
- Flags potential compliance breaches before audits.

# CX and enterprise transformation : ITSM

From Reactive Support to Proactive Service Excellence : *Always-on, proactive IT services with automated triage, self-healing, and knowledge reuse to improve MTTR and user satisfaction*

**1. AI-Powered Virtual Agent**
Conversational virtual agent (chat/voice) as unified entry point.

**2. Auto-Triage & Classification**
Auto-triage models categorize and prioritize tickets on creation.

**3. Intelligent Routing Agents**
AI agent assigns tickets to the correct resolver team instantly.

**4. Agent assist + Self-Healing IT**
Agent assist summarizes ticket history, suggests next-best actions, surfaces similar KBs, self healing for task automation

**5. Knowledge Agent + Change Risk Prediction**
Knowledge Agent updates KB articles from resolved incidents. Change Risk Prediction predicts failed change risk pre-approval.

- Handles Tier-1 incidents (password resets, FAQs) autonomously.
- Collects structured info for unresolved cases; no duplicate tickets.

- NLP analyzes ticket text to classify by type/urgency.
- Predicts priority/severity to align with SLAs.

- ML uses historical resolution patterns to route to best-fit team.
- Predicts and reduces handoffs; escalates automatically if SLA at risk.

- Real-time recommendations for agents.
- Trigger automation workflows for common issues.

- Captures fix steps; publishes KB with minimal human input.
- Scores proposed changes for likelihood of failure; informs CAB decisions.

# CX and enterprise transformation : FinCrime

Future proofing Fincrime for Proactive defense: We will surgically inject AI into our strategic bottlenecks. This is not about augmenting analysts —transforming our defense model by focusing on speed, intelligence, and scalability.

| | | | | |
|---|---|---|---|---|
| **FROM** | **Reactive Threat Detection** | **Fragmented data** | **Inconsistent risk prioritization** | **Knowledge silos** |
| |  |  |  |  |
| **TO** | **Proactive Threat Discovery** | **Instant 360° Insight** | **Data-Driven Risk Triage** | **An Intelligent Investigation Co-Pilot** |
| | **Automated Threat Detection**<br>AI agent will monitor data 24/7 to find and flag emerging threats automatically, allowing us to engage risks before they escalate. | **Entity Resolution Engine**<br>connect data points, query external watchlists, and resolve duplicates, providing analysts with a reliable view of any suspect in seconds | **Predictive Triage**<br>score and rank all incoming threats based on risk, ensuring top investigators are focused on critical cases, maximizing our impact. | **Investigation Co-pilot**<br>deliver case summaries, recommend next-best-actions and uncover hidden networks, scaling best practices across the team. |

# The Case for ADAM in the AI Era

# Why ADAM?

| | |
|---|---|
| **One marketplace, Infinite extensibility** | ADAM is **cloud-agnostic and ecosystem-neutral** — it enables access to **reusable agents, templates, and agent chains** that are not confined to any single hyperscaler's marketplace |
| **Balancing automation with accountability** | **Decision Ledger portal** brings precision to automation by introducing human oversight only where necessary—capturing the rationale, confidence, and accountability behind every critical AI decision |
| **Interoperable by Design** | ADAM is built with agent-to-agent protocol, Model Context Protocol, and standard APIs to ensure **seamless orchestration and reuse** across business units and platforms. Our design frameworks **ensure interoperability, not just integration.** |
| **Ready-to-instantiate on AWS, Azure, GCP** | **Unified ADAM reference architecture** tailored to each cloud — enabling faster setup, optimized usage of cloud-native services, and faster realization of agent-driven outcomes |
| **Solving the C-suite's biggest AI challenges** | **AI Control Tower** (cost, code, data, model, prompt and agent) embeds Responsible AI, **resolves the performance–cost–accuracy trilemma**, and enables centralized governance with decentralized execution |

# Success Stories

# Data Lineage & Code Lineage enabling traceability

**One of America's largest Multinational Investment bank & Financial Services company, with offices in more than 42 countries**

## Outcome

- Enabling compliance with regulatory requirements, such as BCBS-239
- Achieved improved accuracy compared to manual parsing
- Faster audit reporting

## CONTEXT

**Objective:**

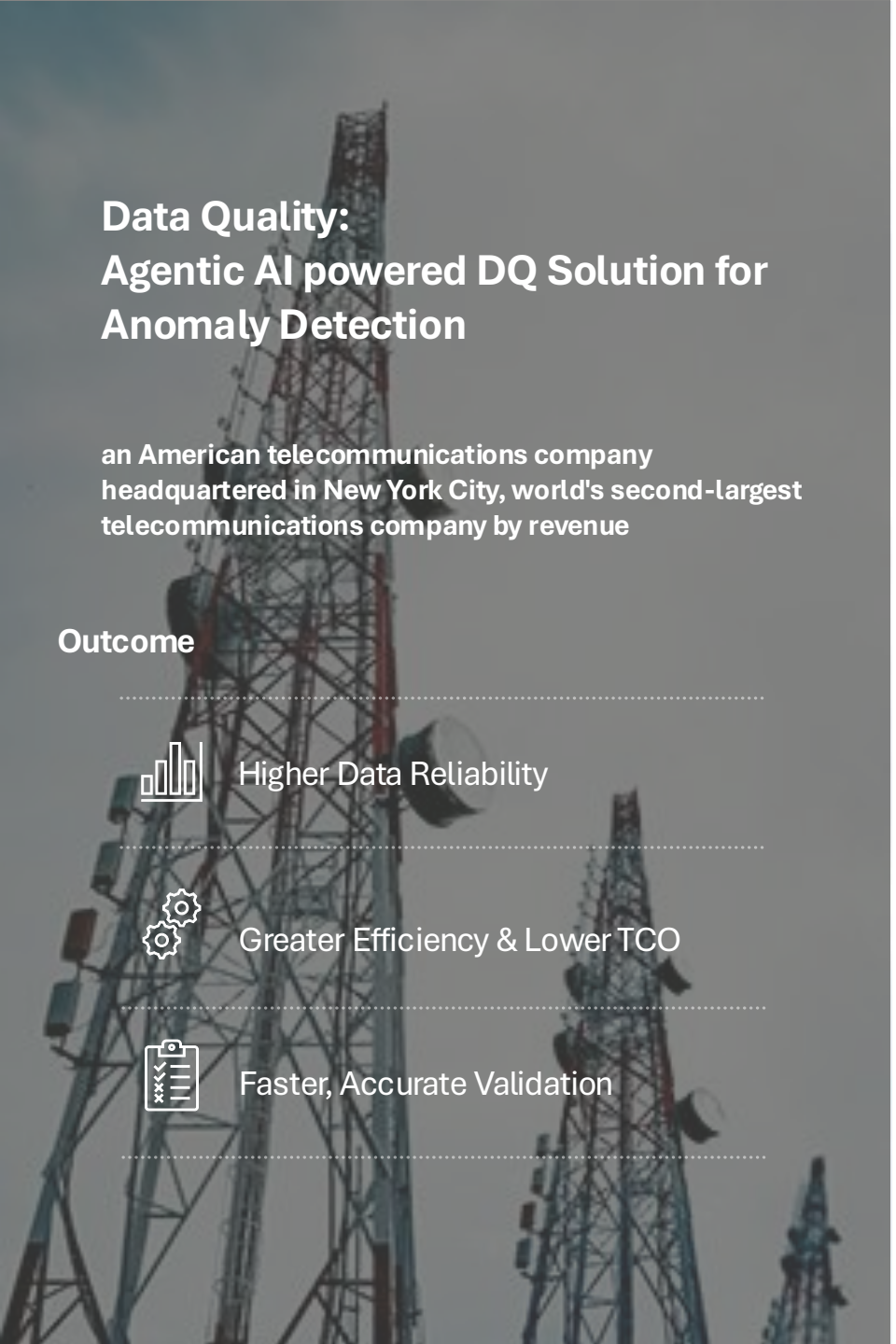
- Client wanted to enable Code lineage & data lineage involving multiple repos in Github with multiple applications & DBs.
- They want to enable the traceability of data to enable easier data audits

## SOLUTIONS

- Performed scanning of repositories one by one covering all 5 repositories, along with complete Java code scan to identify the code lineage
- Performed Entity extraction & merging, load into graph structure, thereby creating the lineage metadata graph
- Using Agents, built the code lineage to identify the traceability across:
  - **Project & Applications**
  - **Package** (*codebase with physical file system hierarchy)*
  - **Types** (*classes, interfaces, and their relationships*)
  - **Method invocations** (*Application's business logic, methods and functions and their call relationships)*
  - **Variable & Lineage** (*Application's Variable level transformation*)
- Identified all the End points interacting with the application
- With Agents & LLM, we were able to capture the below:
  - Structural code relationship with complete Hierarchy mapping
  - Data to collection mapping, with direct class to DB collection relationship
  - Method call tracking & method to method relationship
  - Variable usage & type information
  - Cross- class dependencies
  - Direction of data movement, identifying if data is being read or being written

## OUTCOME

- **Faster time to trace the data across different code & data layers**
- **Improved accuracy with automation**



# Data Quality: Agentic AI powered DQ Solution for Anomaly Detection

**an American telecommunications company headquartered in New York City, world's second-largest telecommunications company by revenue**

## Outcome

- Higher Data Reliability
- Greater Efficiency & Lower TCO
- Faster, Accurate Validation

## CONTEXT

**Objective:**

- The client seeks an agentic AI solution to detect, monitor, and resolve data quality issues at scale.
- Prevent reporting errors and mistrust, ensuring reliable decisions and accurate predictions across business lines.

## SOLUTIONS

- **Automated Rule Discovery & Configuration -** Implemented automated discovery and setup of data quality rules—covering technical, business, and statistical rules—while maintaining priority sequencing. Leveraged impact and lineage analysis to recommend the most effective rules.
- **Proactive Anomaly Detection & Root Cause Analysis -** Deployed continuous monitoring to detect anomalies, perform root cause analysis, and raise alerts proactively, enabling early mitigation of data quality issues.
- **Continuous Optimization & Adaptability -** Established optimization mechanisms with drift detection, usage pattern analysis, dynamic threshold adjustments, and learnings from historical issues to enhance reliability over time.
- **Seamless Integration for Rule Enforcement -** Integrated with Data Buck to ensure smooth implementation and enforcement of defined rules within the data ecosystem.

## OUTCOME

**Improved data reliability with reduced data quality errors**

**Improved operating efficiency and reduced TCO through AI driven DQ Automation**

**Critical data elements achieve consistent higher accuracy**

**Accelerate data onboarding validation through automated agentic checks.**

# Thank You!

BRILLIONXT : REDEFINING CUSTOMER IMPACT IN AGENTIC ERA